

**SECRET**

997606

25X1

FY-68 Quarterly Report No. 1

PAR 245

31 Aug 67

SUBJECT: BPE High-Magnification Lens Sets

## TASK/PROBLEM

1. Design, fabricate, and test prototype optical systems to extend the Briefing Print Enlarger (prototype) PAR 243A upper limit magnification range from 60X to 140X - 160X.

## DISCUSSION

2. Fabrication of the following assemblies was completed:

- a. The condenser assemblies required for in-house testing of the high-magnification lenses in the breadboard BPE.
- b. The two objective lens focus barrel assemblies. These items were subsequently checked out mechanically and found to be acceptable.
- c. The two objective lens optical assemblies.

3. The fabrication of mechanical parts for the deliverable condenser assemblies was completed. The assemblies are due to be completed on or about 22 September 1967. The lens elements for these assemblies have also been completed.

## PLANNED ACTIVITY

4. Conduct lens performance tests on the BPE breadboard using the breadboard condenser assemblies.
5. Deliver the completed lenses and deliverable condenser assemblies to the customer. At the customer's installation, align and check out the condenser assemblies, and check out the lens and condenser assembly combinations on the prototype BPE.
6. Prepare the final report.

Declass Review by NGA.

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